

In the United States Nonprovisional
Patent Application of

Robert E. Oidtman

Title of the Invention

Bracket and Pole Assembly

Filed in the
United States Patent and Trademark Office
November 14, 2003

*Kathleen M. Harleston
Registered Patent Attorney*

*The Harleston Law Firm LLC
909 Tall Pine Road
Mt. Pleasant, South Carolina 29464
Telephone: (843)971-9453
harlestonlawfirm@bellsouth.net*

ROBERT E. OIDTMAN

Citizen of the United States

TITLE OF THE INVENTION

BACKGROUND OF THE INVENTION

The present invention relates to a bracket and pole support assembly for use on a raised flooring surface, such as an outdoor deck; more particularly, a bracket and pole assembly with a removable pole for supporting a hammock, tabletop, umbrella, bird feeder, or other outdoor living accessory.

There is nothing better than laying outside in a hammock on a beautiful day. Unfortunately, hanging a hammock on a backyard deck is often a difficult task. Even if there is a tree or building structure conveniently available adjacent to the deck for supporting one end of the hammock, there is usually no other vertical support available on the deck for supporting the other end of the hammock. Most of the time, the only vertical

supports on a deck are the wooden railings, which are usually not the right distance apart nor are they high enough to elevate a hammock off the deck surface. In addition to needing one or two sufficiently tall posts an appropriate distance apart for holding the ends of the hammock, the posts must have some attachment mechanism on which a hammock may be hung. On the other hand, if the homeowner does not leave the hammock up year round, a pole protruding from the center of a deck is undesirable, potentially hazardous, and can impinge on other uses of the deck. Simply nailing a bucket-shaped receptacle to a joist under a hole in a deck is inadequate for supporting a pole because of torque. In short, there is a need for an inobtrusive bracket and pole assembly for supporting a hammock and occasional or temporary use fixtures such as an umbrella or a party table.

Similarly, it may be desirable to hang a light, candle, flower pot, bird feeder, or other outdoor accessory on an outdoor deck, but a sufficiently high post or other support is often not available. Therefore, a need for an bracket and pole assembly for hanging lights, flower pots, bird feeders, and other outdoor devices exists.

Tables for decks cannot normally be disassembled and are difficult to store in a closet, shed, basement, or elsewhere because they are awkwardly shaped and occupy a large area. It is also sometimes desirable to have more available table surface than a typical deck table can provide, for example, during a barbecue, dinner party, reception, or other outdoor party. Therefore, a need for an bracket and pole assembly for supporting a removable tabletop, and optionally a lazy susan, exists.

BRIEF SUMMARY OF THE INVENTION

The present invention is a bracket and pole assembly for supporting on a raised flooring surface a hammock, umbrella, tabletop with or without a lazy susan, lamp, bird feeder, hanging candle, flower pot, or other accessories for enhancing outdoor living. The bracket and pole assembly of the present invention includes: (a) a bracket comprising a bracket shaft and a bottom support; and (b) a pole assembly comprising a removable

hollow pole, the pole being supportable on the bottom support. The bracket is attachable to a floor joist of the raised flooring surface, which is preferably an outdoor deck, so that the bracket shaft is directly below a hole in the flooring surface. The hollow pole is removably insertable through the hole in the flooring surface and into the bracket shaft, which
5 supports the pole in an upright position.

In a preferred embodiment, the pole assembly further comprises a hook mechanism, a cap plug, a table attachment bolt shaft, and cushioning strips. A preferred bracket and pole assembly of the present invention also further comprises a filler plug for insertion into the bracket shaft and the hole in the flooring surface when the pole is absent. Furthermore,
10 the bracket and pole assembly of the present invention preferably includes a step down plug for accommodating poles with smaller outer diameters, as well as a table attachment mechanism for supporting a tabletop. The cap plug may comprise a lazy susan, light, flower pot or vase, bird feeder, or other accessory for enhancing outdoor living.

15 BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

A more complete understanding of the invention and its advantages will be apparent from the following detailed description taken in conjunction with the accompanying drawings, wherein examples of the invention are shown, and wherein:
20

FIG. 1 shows a front elevational view of a bracket of a bracket and pole assembly according to the present invention;

FIG. 2 is a top plan view of the bracket of the bracket and pole assembly according
25 to FIG. 1;

FIG. 3 is a front elevational view of a first alternate embodiment of a bracket of a bracket and pole assembly according to the present invention;

FIG. 4 is a top plan view of the bracket according to FIG. 3;

FIG. 5 is a front elevational view of a second alternate embodiment of a bracket of
5 a bracket and pole assembly according to the present invention;

FIG. 6 is a top plan view of the second alternate embodiment of a bracket of a
bracket and pole assembly according to FIG. 5;

10 FIG. 7 is a side elevational view of a pole assembly of a bracket and pole assembly
according to the present invention;

FIG. 8A is a side elevational view of an alternate embodiment of a pole assembly
of a bracket and pole assembly according to the present invention;

15 FIG. 8B is a side elevational view of the hook from the bracket and pole assembly
according to FIG. 8A;

FIG. 8C is a front elevational view of the hook from the bracket and pole assembly
20 according to FIG. 8A;

FIG. 9 is a side elevational view of a bracket and pole assembly according to the
present invention;

25 FIG. 10 is a side elevational view of an alternate embodiment of a bracket and pole
assembly according to the present invention;

FIG. 10A is a side elevational view of two bracket and pole assemblies according to the present invention, shown supporting a hammock;

FIG. 11 is a side elevational view of a filler plug of a bracket and pole assembly
5 according to the present invention;

FIG. 12 is a top plan view of the filler plug of the bracket and pole assembly according to FIG. 11;

10 FIG. 13 is a bottom plan view of the filler plug of the bracket and pole assembly according to FIG. 11;

FIG. 14 is a cutaway side elevational view of a filler plug in a bracket of a bracket and pole assembly according to the present invention;
15

FIG. 15 is a side elevational view of a step down plug of a bracket and pole assembly according to the present invention;

FIG. 16 is a top plan view of the step down plug of the bracket and pole assembly
20 according to FIG. 15;

FIG. 17 is a bottom plan view of the step down plug of the bracket and pole assembly according to FIG. 15;

25 FIG. 18 is a cutaway side elevational view of a step down plug in a bracket of a bracket and pole assembly according to the present invention;

FIG. 19 is a side elevational view of an umbrella in a step down plug of a bracket and pole assembly according to the present invention;

FIG. 20 is a side elevational view of a table attachment of a bracket and pole
5 assembly according to the present invention;

FIG. 21 is a top plan view of the table attachment according to FIG. 20;

FIG. 22 is a bottom plan view of the table attachment according to FIG. 20;
10

FIG. 23 is a side elevational view of a bracket and pole assembly according to the present invention, showing a tabletop, a table attachment mechanism, a lazy susan, and a lamp;

FIG. 24 is a side elevational view of a cap step down plug of a bracket and pole
15 assembly according to the present invention;

FIG. 25 is a top plan view of the cap step down plug according to FIG. 24;

FIG. 26 is a bottom plan view of the cap step down plug according to FIG. 24;
20

FIG. 27 is a side elevational view of a bracket and pole assembly according to the present invention, showing a table attachment mechanism, a tabletop, a cap step down plug, and an outdoor accessory assembly with a flower pot;

FIG. 28 is a side elevational view of a bracket and pole assembly according to the present invention, showing a cap step down plug, a table attachment, a tabletop, and an
25 umbrella;

FIG. 29 is a side elevational view of a bracket and pole assembly according to the present invention, showing a cap-step down plug, a cocktail tabletop, and an umbrella; and

5 FIG. 30 is a side elevational view of a bracket and pole assembly according to the present invention, showing a bird feeder and a flower pot.

DETAILED DESCRIPTION OF THE INVENTION

10 In the following description, like reference characters designate like or corresponding parts throughout the several views. Also, in the following description, it is to be understood that such terms as “front,” “back,” “within,” and the like are words of convenience and are not to be construed as limiting terms. Referring in more detail to the drawings, the invention will now be described.

15 Turning first to FIGS. 1 and 2, a bracket and pole assembly according to the present invention, generally referred to as 10, is for use on a raised flooring surface, such as a deck. The bracket and pole assembly 10 comprises a bracket 11, which includes two bracket shaft joist walls 19 separated by a bracket shaft 20. The bracket shaft is enclosed by a first bracket wall 23, a second bracket wall 24, and a third bracket wall 25. A first end of the
20 first bracket wall 23 is substantially perpendicularly connected to an end of one bracket shaft joist wall 19, and a first end of the third bracket wall 25 is substantially perpendicularly connected to an end of the other bracket shaft joist wall 19. The second bracket wall 24 is longitudinally oriented to the bracket shaft joist walls 19. Similarly, the first bracket support wall 23 and the third bracket wall 25 are both longitudinally oriented.
25 In the preferred embodiment depicted in FIGS. 1 and 2, the bracket shaft joist walls 19, first bracket wall 23, second bracket wall 24, and third bracket wall 25 are each generally rectangular in shape. A plurality of similarly sized, spaced apart, generally circular bracket holes 21 extend transversely through the bracket shaft joist walls 19. To install the bracket

11 in the raised flooring surface, bracket bolts 22 are inserted perpendicularly through the bottom of the first bracket wall 23 and the bottom of the third bracket wall 25, so they extend through the bracket shaft.

Thus, the bracket shaft 20 has at least two bracket wall holes 22A, a first one of the
5 holes 22A being in the first bracket wall 23 and a second one of the holes 22A being in the third bracket wall 25 (see FIG. 2). In this preferred embodiment, the bottom support 22A, 32 is at least one bolt 22 extending perpendicularly through the first bracket wall hole 22A in the first bracket wall 23 and the second bracket wall hole 22A in the third bracket wall 25, and through the bracket shaft 20.

10 Bolt covers 72, which are generally cylindrical in shape and approximately equal in length to the width of the bracket shaft, preferably surround the bolts 22. Nuts 26 are secured to the ends of the bracket bolts 22 to hold the bolts in place. The bracket 11 and bracket bolts 22 are preferably made of a rustproofed metal, such as stainless steel, galvanized steel, or aluminum. The bracket bolt covers 72 are preferably made of plastic
15 and further protect the bracket bolts 22.

In an alternate embodiment depicted in FIGS. 3 and 4, the bracket 11 comprises two bracket shaft joist walls 19 separated by the bracket shaft 20, which has a first side 30, a second side 31, and a bottom support base plate 32. In this embodiment, the bracket shaft 20 is generally triangular in shape, a third side of the triangle (preferably equilateral)
20 being provided by the floor joist. A first end of the first side 30 is connected at an obtuse angle to an end of one bracket shaft joist wall 19, and a first end of the second side 31 is connected at an obtuse angle to an end of another bracket shaft joist wall 19. A second end of the first side 30 is connected to a second end of the second side 31 to form an apex 33. The base plate 32, which is the bottom support, is welded to the bottom ends of the first
25 side 30 and the second side 31 and spans between the first side 30 and the second side 31. The bracket shaft joist walls 19, first side 30, and second side 31 are preferably generally rectangular in shape. In order to permit water to drain from the bracket shaft 20, the base plate 32 preferably does not span the entire length of the first side 30 and the second side

31. A plurality of similarly sized, spaced apart, generally circular holes 21 extend transversely through the bracket shaft joist walls 19.

In a second alternate embodiment illustrated in FIGS. 5 and 6, the bracket 11 comprises two bracket shaft joist walls 19 separated by the bracket shaft 20. The bracket shaft 20 includes a first bracket wall 23, second bracket wall 24, third bracket wall 25, and a base plate 32. One end of the first bracket wall 23 and one end of a bracket shaft joist wall 19, as well as one end of the third bracket wall 25 and an end of the other bracket shaft joist wall 19, are substantially perpendicularly connected to one another. One end of the second bracket wall 24 and an end of the first bracket wall 23 are substantially perpendicularly connected, and an end of the second bracket wall 24 is substantially perpendicularly connected to an end of the third bracket wall 25, such that the second bracket wall 24 is longitudinally oriented to the bracket shaft joist walls 19. Similarly, the first bracket wall 23 and third bracket wall 25 are longitudinally oriented. The base plate 32, which is the bottom support the pole rests on, is welded to the bottom ends of the first bracket wall 23 and the third bracket wall 25 and spans between the first bracket wall 23 and the third bracket wall 25. The bracket shaft joist walls 19, first bracket wall 23, second bracket wall 24, third bracket wall 25, and the base plate 32 are preferably each generally rectangular in shape. In order to permit water to drain from the bracket shaft 20, the base plate 32 preferably does not span the entire length of the first bracket wall 23 and the third bracket wall 25. A plurality of similarly sized, spaced apart, generally circular holes 21 extend transversely through the bracket shaft joist walls 19.

Referring to FIGS. 7 and 8A, the bracket and pole assembly 10 further comprises a pole assembly 12, which includes a pole 12A, a removable cap plug 34, a hook mechanism 13, a table attachment bolt shaft 35, cushion strips 36, and a base plug 58. The cushion strips 36 are mounted on the sides of the pole 12A at its base 37 and are longitudinally oriented with the pole 12A. The cushion strips 36 are preferably matching magnetic strips or waterproof dense foam strips. The pole 12A is preferably hollow, so that the cap plug 34 can be removably inserted into the top end of the pole 12A. The cap plug 34 prevents

rainwater, insects such as spiders, and other undesirable elements from collecting inside the pole 12A. The hook mechanism 13 is located at the top end of the pole assembly 12 directly below the cap plug 34, while the table attachment bolt shaft 35 is bored transversely through the pole 12A below the hook mechanism 13. The base plug 58 is insertable in the bottom of the pole 12A and comprises a drain hole to allow any water that accumulates inside the pole 12A to drain out of the pole.

A first embodiment of the hook mechanism 13, which is shown in FIG. 7, comprises a hook bolt shaft 38, a hook 39, and a hook nut 40. The hook bolt shaft 38 is bored transversely through the pole 12A and a linear portion 41 of the hook 39 is inserted through the hook bolt shaft 38 until a curved hook portion 42 prevents further entry of the linear hook portion 41 into the hook bolt shaft 38. The hook nut 40 placed over the linear portion 41 abuts the pole 12A to secure the hook 39 within the pole 12A.

An alternate, preferred embodiment of a hook mechanism 13 shown in FIGS. 8A-C comprises hook bolt shafts 38, a hook 39, hook nuts 40, and hook bolts 29. The hook 39 is shown in greater detail in FIGS. 8B and 8C. The hook bolt shafts 38 are bored transversely through the pole 12A, one above another. Hook bolts 29 are inserted through holes 29A in the hook 39 and then through the hook bolt shafts 38 to connect the hook 39 to the pole 12A (see FIGS. 8A and 8C). Hook nuts 40 over the hook bolts 29 abut the pole 12A to secure the hook 39 on the pole 12A.

Turning now to FIGS. 9 and 10, a typical outdoor deck comprises a flooring surface 44 and floor joists 45. In order for the flooring surface 44 to accommodate the bracket and pole assembly 10, a generally circular hole with a diameter slightly greater than the outer diameter of the pole 12 is cut into the flooring surface 44 next to a floor joist 45. The bracket 11 is attached to the floor joist 45 with joist bolts 27 that extend through holes 21 and through the floor joist 45. Joist nuts 27 placed over the joist bolts 27 abut the floor joist 45 to further secure the bracket 11 to the floor joist 45. The bracket shaft 20 of the bracket 11 lies immediately below the hole in the flooring surface 44.

Next, the base plug 58 is inserted in the bottom of the pole assembly 12. Then the base 37 of the pole 12A is inserted through the hole in the flooring surface 44 and into the bracket shaft 20 until the pole base 37 contacts bolt covers 72 (shown in FIG. 9) or the base plate 32 (shown in FIG. 10). The bracket shaft 20 supports the pole 12A in a substantially vertical position. The cushion strips 36 and base plug 58 protect the finished surface of the pole 12A and the cushion strips 36 also insure that the pole 12A fits snugly within the bracket shaft 20.

Referring to FIG. 10A, two bracket and pole assemblies 10 support a hammock 59 on a deck. A first bracket and pole assembly 10 is mounted on a floor joist 45 an appropriate distance from a second bracket and pole assembly 10 mounted on the same floor joist 45, or a different floor joist 45 depending upon the orientation of the hammock. A first end 60 of the hammock 59 is hung from the hook 39 on the first bracket and pole assembly 10 and a second end 61 of the hammock 59 is hung from the hook 39 on the second bracket and pole assembly 10.

FIGS. 11 through 14 illustrate a filler plug 14 for removable insertion into the bracket shaft 20. FIG. 14 shows the hole in the flooring surface 44 when the pole 12A is absent from the bracket shaft 20. The filler plug 14 comprises a filler top section 47 attached to a filler bottom section 50. The filler bottom section 50 is preferably cylindrical in shape, and the diameter of the filler bottom section 50 is slightly less than the diameter of the hole in the flooring surface 44. The filler top section 47 is a generally circular cap attached to the filler bottom section 50. The filler plug 14 imparts an aesthetically pleasing finish to the flooring surface 44 when the pole 12A is absent from the bracket shaft 20. It also acts as a safety feature by preventing a person walking on the flooring surface 44 from tripping over or twisting their ankle in the hole in the flooring surface 44.

Turning next to FIGS. 15 through 18, a step down plug 15 is removably insertable through the hole in the flooring surface 44 and into the bracket shaft 20 so that the bracket and pole assembly 10 can accommodate a pole 12A. The pole 12A has an outer diameter smaller than the diameter of the hole in the flooring surface 44. The step down plug 15

comprises a step down plug bottom section 43 and a step down plug top section 48. The step down plug bottom section 43 and the step down plug top section 48 are preferably generally cylindrical in shape. The diameter of the step down plug bottom section 43 is smaller than the diameter of the step down plug top section 48, which is larger than the diameter of the hole in the flooring surface 44. Therefore, the step down plug top section 48 sits on the flooring surface 44. A generally circular step down plug aperture 49, in which a pole 12A having a diameter equal to the diameter of the step down plug aperture 49 is inserted, extends through the center of the step down plug bottom section 43 and the step down plug top section 48. The step down plug 15 is available with different diameters of the step down plug aperture 49 to hold poles 12A with different outer diameters.

FIG. 19 illustrates an umbrella pole assembly 12B including an umbrella 16. A pole 12C of the umbrella pole assembly 12B is shown inserted into the step down plug 15.

Referring to FIGS 20 through 23, a tabletop attachment mechanism 17 comprises a table attachment top section 52, a table attachment bottom section 51, a table attachment aperture 53, a table bolt shaft 54, and table attachment holes 46. The table attachment top section 52 and the table attachment bottom section 51 are preferably generally cylindrical in shape. The diameter of the table attachment top section 52 is larger than the diameter of the table attachment bottom section 51, and a generally circular, table attachment aperture 53 runs through the center of the table attachment top section 52 and the table attachment bottom section 51. The diameter of the table attachment aperture 53 is preferably approximately equal to the outer diameter of the pole 12A. The table bolt shaft 54 is bored transversely through the table attachment bottom section 51. The table attachment holes 46 are bored through the table attachment top section 52 such that the table attachment holes 46 are substantially perpendicular to the table bolt shaft 54. The tabletop attachment mechanism 17 slides over the pole 12A and is removably attached to the pole 12A with a table bolt 55 inserted through the table bolt shaft 54 and the table attachment bolt shaft 35. As shown in FIG. 23, a table nut 56 placed over the table bolt 55 abuts the tabletop

attachment mechanism 17 to further secure the tabletop attachment mechanism 17 to the pole 12A.

In use, a dinner-sized tabletop 18 is supported by the table attachment top section 52 of the tabletop attachment mechanism 17, as shown in FIG. 23. A central hole in the dinner tabletop 18 is placed over the top of the pole 12A. The tabletop hole has a diameter only slightly larger than the outer diameter of the pole 12A. The dinner tabletop 18 rests on the table attachment top section 52 and is secured to the table attachment top section 52 by bolts or screws that extend through the tabletop 18 and the table attachment holes 46. This dinner tabletop 18 comfortably supports a dinner for four people, for example.

The bracket and pole assembly 10 is preferably for outdoor use on a deck, although it can also be used indoors where the floor is raised above the foundation. For example, a reception room of a facility or a living room in a home might have several brackets 11 installed in the raised floor, optionally with a rug covering them. When a party is to be given, the rug is rolled up, and poles 12A are installed in the brackets 11 in an arrangement suitable for the type of party being given and the number of guests expected. Larger or smaller tabletops 18, 73 can be placed on the poles 12A. The tabletops can be used in combination with a table attachment mechanism, or they may be attached to a flat platform at the top of the pole.

Also depicted in FIG. 23 is a cap step down plug 64 comprising a lazy susan 57 with a lamp 72 above it. In alternate embodiments, the cap plug 34 may comprise a vase or flower pot 63 (see FIG. 27), a bird feeder, a bird house, or other accessories for enhancing outdoor living.

FIGS. 24 through 26 show a cap step down plug 62, which is insertable in the top of the pole assembly 12 in place of the cap plug 34. The cap step down plug 62 comprises a cap step down plug top section 64, a cap step down plug bottom section 65, a cap step down plug aperture 66, and an attachment bolt shaft 67, as shown in FIGS. 24 through 26. The cap step down plug top section 64 and the cap step down plug bottom section 65 are preferably generally cylindrical in shape. The diameter of the cap step down plug top

section 64 is larger than the diameter of the cap step down plug bottom section 65, and a generally circular, cap step down plug aperture 66 extends through the center of the cap step down plug top section 64 and the cap step down plug bottom section 65. The attachment bolt shaft 67 extends transversely through the cap step down plug bottom section 65. The cap step down plug 62 slides into the top of the pole assembly 12 and is removably attached to the pole 12A with an attachment bolt 68 that is inserted through the hook bolt shaft 38 and the attachment bolt shaft 67. An attachment nut 69 placed over the attachment bolt 68 abuts the pole 12A to further secure the cap step down plug 62 within the pole 12A.

In use, an umbrella 16 or an outdoor accessory assembly 70 comprising, for example, a flower pot 63 (see FIG. 27), a lamp 71 (see FIG. 23), a lazy susan 57 (see FIG. 23), a hanging candle, or a bird feeder or bird house, is inserted into the cap step down plug aperture 66 of the cap step down plug 62. Alternatively, the cap plug 34 may be removed and a conventional umbrella pole can be inserted into the hollow pole 12A.

FIG. 29 shows a cap step down plug 62 supporting a cocktail tabletop 73. The cocktail tabletop 73 rests on the cap step down plug top section 64, with a generally circular aperture in the center of the cocktail tabletop being aligned with the cap step down plug aperture 66. Preferably the diameter of the aperture in the cocktail tabletop 73 is approximately equal to the diameter of the cap step down plug aperture 66. Any outdoor item, such as the umbrella 16, inserted into the cap step down plug aperture 66 holds the cocktail tabletop 73 in place on the cap step down plug top section 64. The cocktail tabletop 73 is smaller in diameter than the dinner tabletop 18 shown in FIG. 28, and is in a higher position on the pole. It is well suited for use with bar stools.

Lastly, FIG. 30 shows a shepherds' hook pole 12D in a step down plug 15. A bird feeder 74 and a hanging flower container 75 are shown hanging from two crooks of the shepherd's hook pole 12D. Of course, other items can be hung from the crooks, such as hanging candles, a bird house, a banner, a wind sock, or wind chimes (not shown).

In the present invention, the bracket 11 supports the pole 12A, but does not secure it in place, so the pole 12A can be quickly and easily removed from the bracket 11. The hollow pole 12A has strategically placed shafts 35, 38 in it, as well as several attachments, e.g., hook 39, step down plug 15, table attachment mechanism 17, and cap step down plug 62, that fit into the shafts 35, 38. These make the pole 12A versatile, since the assembly 10 can easily be configured to accommodate a wide range of utilitarian and decorative accessories, e.g., umbrella 16, dining tabletop 18, lazy susan 57, hammock 59, cocktail tabletop 73, lamp 71, flower pot 63, hanging flower container 75, and bird feeder 74.

Also included herein is a kit comprising at least one bracket and pole assembly 10 for use on a raised flooring surface. The kit comprises:

(a) at least one bracket 11 comprising a bracket shaft 20; the bracket 11 being attached to a floor joist 45 with the bracket shaft 20 directly below a hole in the raised flooring surface 44; and

(b) at least one pole assembly 12 comprising a removable hollow pole 12A, an end portion of the pole 12A being removably insertable in the bracket shaft 20;

(c) at least one tabletop 18, 73 having a central hole with a slightly larger diameter than the diameter of the pole 12A;

(d) at least one tabletop attachment mechanism 17;

(e) at least one cap step down plug 62 insertable in the top of the pole assembly 12, the cap step down plug 62 comprising a cap step down plug aperture 66; and

(f) at least one outdoor accessory assembly 70 removably insertable in the cap step down plug aperture 66. These items are shown in the figures.

From the foregoing it can be realized that the described device of the present invention may be easily and conveniently utilized as a versatile outdoor bracket and pole assembly. It is to be understood that any dimensions given herein are illustrative, and are not meant to be limiting.

While preferred embodiments of the invention have been described using specific terms, this description is for illustrative purposes only. It will be apparent to those of

ordinary skill in the art that various modifications, substitutions, omissions, and changes may be made without departing from the spirit or scope of the invention, and that such are intended to be within the scope of the present invention as defined by the following claims. It is intended that the doctrine of equivalents be relied upon to determine the fair scope of these claims in connection with any other person's product which fall outside the literal wording of these claims, but which in reality do not materially depart from this invention.

Without further analysis, the foregoing will so fully reveal the gist of the present invention that others can, by applying current knowledge, readily adapt it for various applications without omitting features that, from the standpoint of prior art, fairly constitute essential characteristics of the generic or specific aspects of this invention.